Vol. 28, 1980

QH
431
C95

Cytogenetics and Cell Genetics

Founded 1962 as "Cytogenetics" by H.P. KLINGER

Editor-in-Chief:
H.P. KLINGER, Bronx, N.Y.

Associate Editors:
D. BOOTSMA, Rotterdam
H.J. EVANS, Edinburgh
U. FRANCKE, New Haven, Conn.
J.L. HAMERTON, Winnipeg, Man.
G. KLEIN, Stockholm
O.J. MILLER, New York, N.Y.
M.C. WEISS, Gif-sur-Yvette

Editors:
A.A. AWA, Hiroshima
M. BOBROW, Oxford
A. DE LA CHAPELLE, Helsinki
E.H.Y. CHU, Ann Arbor, Mich.
D.E. COMINGS, Duarte, Calif.
B. DUTRILLAUX, Paris
A.P. DYBAN, Leningrad
C.J. EPSTEIN, San Francisco, Calif.
M.A. FERGUSON-SMITH, Glasgow
M. FRACCARO, Pavia
H. GALJAARD, Rotterdam
J.L. GERMAN, III, New York, N.Y.
J. DE GROUCHY, Paris
D.G. HARNDEN, Birmingham
P.A. JACOBS, Honolulu, Hawaii
K.W. JONES, Edinburgh
W. KRONE, Ulm/Donau
S.A. LATT, Boston, Mass.
J. LEJEUNE, Paris
G. LEVAN, Gothenburg
M. MIKKELSEN, Glostrup
D.A. MILLER, New York, N.Y.
F. MITELMAN, Lund
S. OHNO, Duarte, Calif.
T.T. PUCK, Denver, Colo.
J. ROWLEY, Chicago, Ill.
F.H. RUDDLE, New Haven, Conn.
C. SCHILDKRAUT, Bronx, N.Y.
H.G. SCHWARZACHER, Vienna
T.B. SHOWS, Buffalo, N.Y.
L. SIMINOVITCH, Toronto, Ont.
J. WAHRMAN, Jerusalem
D. WARBURTON, New York, N.Y.
U. WOLF, Freiburg i. Br.
L. ZECH, Stockholm

Assistant Editors:
E.S. GEFFNER, New York, N.Y.
J. JENSEN, Bronx, N.Y.

Editorial Secretary:
B. SCUOLA, Bronx, N.Y.

S. Karger · Basel · München · Paris · London · New York · Sydney

All rights, including that of translation into other languages, reserved.
Photomechanic reproduction (photocopy, microcopy) of this volume or parts thereof
without special permission of the publishers is prohibited.

S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland)
Printed in Switzerland by Buchdruckerei Schüler AG, Biel

Contents Vol. 28, 1980

No. 1–2

Announcement

Human cytogenic nomenclature 1

Original Articles

Characterization of normal and rearranged human chromosomes by simultaneous Q- and R-banding with chromomycin A_3
Mostacci, C.; Ferraro, M.; Pelliccia, F.; Archidiacono, N.; Rocchi, M., and Capoa, A. de ... 3

Chromosomal interrelationship of hamster species of the genus *Mesocricetus*
Popescu, N.C. and DiPaolo, J.A. 10

Growth kinetics of ataxia telangiectasia lymphoblastoid cells. Evidence for a prolonged S period
Cohen, M.M. and Simpson, S.J. 24

Location of the 18S and 28S rRNA cistrons in the genome of the domestic rabbit (*Oryctolagus cuniculus* L.)
Martin-DeLeon, P.A. 34

Banding patterns of the chromosomes of *Miopithecus talapoin* compared with *Macaca mulatta* and *Cercopithecus aethiops*
Ponsà, M.; Estop, A.M.; Miró, R.; Rubio, A., and Egozcue, J. 41

Induction of chromosome aberrations, sister chromatid exchanges, and specific locus mutations in Chinese hamster ovary cells by 5-bromodeoxyuridine
San Sebastian, J.R.; O'Neill, J.P., and Hsie, A.W. 47

A reassessment of the karyotype of *Papio ursinus*. Homoeology between human chromosomes 5 and 22 and a characteristic submetacentric baboon chromosome
Bernstein, R.; Pinto, M.; Morcom, G., and Bielert, C. 55

Comparative chromosome studies in the family Leporidae (Lagomorpha, Mammalia)
Robinson, T.J. 64

Banding studies on six killer whales: an account of C-band polymorphism and G-band patterns
Árnason, Ú.; Lutley, R., and Sandholt, B. 71

Cytogenetic analysis of great horned owls *(Bubo virginianus)*
Biederman, B.M.; Florence, D., and Lin, C.C. 7
Demonstration of a heritable fragile site in human chromosome 16 with distamycin A
Schmid, M.; Klett, C., and Niederhofer, A. 8
Mastomys (= Praomys) natalensis is not a *Rattus* (Mammalia: Rodentia): karyological evidence
Lee, M.R. and Martin, L.K. 9
A cytogenetic investigation of inherited true hermaphroditism in BALB/cWt mice
Eicher, E.M.; Beamer, W.G.; Washburn, L.L., and Whitten, W.K. 10
Assignment of *PGM3* to the long arm of human chromosome 6. Studies using Chinese hamster × human cell hybrids containing a human 6/15 translocation
Mohandas, T.; Sparkes, R.S.; Shulkin, J.D.; Sparkes, M.C., and Moedjono, S. 11
Assignment of a gene for succinate dehydrogenase to human cromosome 1 by somatic cell hybridization
Mascarello, J.T.; Soderberg, K., and Scheffler, I.E. 12

Brief Reports

The frequency and distribution of 5.8S rRNA genes and the relationship to 18/28S rRNA genes in human chromosomes
Henderson, A.S.; Wolf, L., and Megraw-Ripley, S. 13
Comparative gene mapping of man and *Cebus capucinus* for PGD, ENO1, PGM1, PGM2, and SOD1
Creau-Goldberg, N.; Cochet, C.; Turleau, C.; Finaz, C., and Grouchy, J. de 14
Spermatocyte loss in XYY mice. Addendum to Cytogenet. Cell Genet. *23:* 84–89
Burgoyne, P.S. and Biddle, F.G. 14

No. 3

Original Articles

Linkage studies on glyoxalase I *(GLO)*, pepsinogen *(PG)*, spinocerebellar ataxia *(SCA1)*, and *HLA*
Whittington, J.E.; Keats, B.J.B.; Jackson, J.F.; Currier, R.D., and Terasaki, P.I. 14
Ring chromosome 12 and latent centromeres
Zuffardi, O.; Danesino, C.; Poloni, L.; Pavesi, F.; Bianchi, C., and Gargantini, L. 15
Giant diploid oocytes as a cause of digynic triploidy in mammals
Funaki, K. and Mikamo, K. 15
Regional localization of the genes coding for human ACO2, ARSA, and NAGA on chromosome 22
Geurts van Kessel, A.H.M.; Westerveld, A.; Groof, P.G. de; Meera Khan, P., and Hagemeijer, A. 16
Induction of sister chromatid exchanges in mouse fetuses resulting from maternal alcohol consumption during pregnancy
Alvarez, M.R.; Cimino, L.E., Jr., and Pusateri, T.J. 17
Chromosomal assignment of the gene for folylpolyglutamate synthetase to human chromosome 9
Jones, C.; Kao, F.-T., and Taylor, R.T. 18

mmunogenetics of sex determination in the polled goat
Shalev, A.; Short, R.V., and Hamerton, J.L. 195
ytological evidence for an inactive X chromosome in murine oogonia
Gartler, S.M.; Rivest, M., and Cole, R.E. 203

Brief Report

ne karyotype of *Xenopus wittei* Tinsley, Kobel, and Fischberg, another tetraploid anuran species ipidae)
Tymowska, J. and Fischberg, M. 208

Human Genetic Mutant Cell Repository Report

ivenile onset diabetes
Buck, D.; Greene, A.E.; Coriell, L.L., and Mulivor, R.A. 213

No. 4

Original Articles

omogeneously staining chromosome regions and double minutes in a mouse adrenocortical mor cell line
George, D.L. and Francke, U. 217
haracterization of ouabain resistant, hypoxanthine phosphoribosyl transferase deficient human ells and their usefulness as a general method for the production of human cell hybrids
Weissman, B. and Stanbridge, E.J. 227
hromosome-specific patterns of mitomycin C-induced rearrangements in human lymphocytes
Schaap, T.; Sagi, M., and Cohen, M.M. 240
n experimental approach to the analysis of mechanisms of meiotic nondisjunction and anaphase agging in primary oocytes
Sugawara, S. and Mikamo, K. 251
spontaneous clone of Fanconi anemia fibroblasts with chromosome abnormalities and increased rowth potential
Auerbach, A.D.; Wolman, S.R., and Chaganti, R.S.K. 265
Human chromosome 11 is syntenic with human specific fibronectin production in human×mouse ell hybrids
Klinger, H.P. and Ruoslahti, E. 271

Brief Report

xamination of glucocorticoid sensitivity and receptor content of hepatoma cell lines
Venetianer, A.; Pintér, Z., and Gal, A. 280
uthor Index 284
ubject Index 285
Human Genetic Mutant Cell Repository Reports Index 286